

**CLAIMS**

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is as follows:

- 1        1. A wireless communication system with security, comprising:
  - 2              a display for displaying a site-specific computerized representation of a physical environment in which a communications system is deployed;
  - 3              a plurality of wireless communication components positioned at plurality of different locations within said physical environment, said display identifying at least some of the wireless communication components and their location in said site-specific computerized representation of said physical environment, at least one of said plurality of wireless communication components being an access point and at least one of said plurality of wireless communication components being a network device; and
  - 4              indicator for identifying the presence or a physical location within said physical environment of a possible intruder or intruder devices, said indicator is presented in said site-specific computerized representation of said physical environment on said display when an erroneous authentication request or other undesired transmission is received by said network device or said access point.
- 1        2. The wireless communication system with security of claim 1 wherein said network device is a router.
- 1        3. The wireless communication system with security of claim 1 wherein said network device is mobile.
- 1        4. A security method for a wireless communication system, comprising the steps of:

3           displaying a site-specific computerized representation of a physical  
4       environment in which a communications system is deployed;

5           positioning a plurality of wireless communication components at  
6       plurality of different locations within said physical environment, said  
7       display identifying at least some of the wireless communication  
8       components and their locations in said site-specific computerized  
9       representation of said physical environment, at least one of said plurality of  
10      wireless communication components being an access point and at least one  
11      of said plurality of wireless communication components being a network  
12      device; and

13           identifying the presence or a physical location within said physical  
14       environment of a possible intruder or intruder devices by presenting an  
15       indicator in said site-specific computerized representation of said physical  
16       environment on said display when an erroneous authentication request or  
17       other undesired transmission is received by said network device or said  
18       access point.

1       5. The security method of claim 4 wherein said network device is mobile,  
2       and further comprising the step of representing movement of said network  
3       device that is mobile on said display.

1       6. A wireless communication system with security, comprising:  
2           a display for displaying a site-specific computerized representation  
3       of a physical environment in which a communications system is deployed;  
4           a plurality of wireless communication components positioned at  
5       plurality of different locations within said physical environment, said  
6       display identifying at least some of the wireless communication  
7       components and their location in said site-specific computerized  
8       representation of said physical environment, at least one of said plurality of  
9       wireless communication components being a network device;  
10          storage device for archiving records of other network devices

11       which interact with said network device; and  
12               indicator for identifying the presence or a physical location within  
13        said physical environment of a possible intruder or intruder devices, said  
14        indicator is presented in said site-specific computerized representation of  
15        said physical environment on said display when an other network device  
16        attempts to interact with said network device which has not previously  
17        interacted with said network device as determined from records archived  
18        on said storage device.

1       7. A security method for a wireless communication system, comprising  
2       the steps of:

3               displaying a site-specific computerized representation of a physical  
4        environment in which a communications system is deployed;

5               positioning a plurality of wireless communication components at a  
6        plurality of different locations within said physical environment, said  
7        display identifying at least some of the wireless communication  
8        components and their presence or location in said site-specific  
9        computerized representation of said physical environment, at least one of  
10      said plurality of wireless communication components being a network  
11      device;

12               archiving records of other network devices which interact with said  
13        network device in a storage device; and

14               identifying the presence or a physical location within said physical  
15        environment of a possible intruder or intruder devices by presenting an  
16        indicator in said site-specific computerized representation of said physical  
17        environment on said display when an other network device attempts to  
18        interact with said network device which has not previously interacted with  
19        said network device as determined from records archived on said storage  
20      device.

1       8. A site specific inventory system, comprising:

2           a display for displaying a site-specific computerized representation  
3       of a physical environment in which a communications system is deployed;  
4           a plurality of wireless communication components positioned at a  
5       plurality of different locations within said physical environment, said  
6       display identifying at least some of the wireless communication  
7       components and their locations in said site-specific computerized  
8       representation of said physical environment, at least one of said plurality of  
9       wireless communication components being a network device;

10          a plurality of RF tags distributed within said physical environment,  
11       each of said RF tags being associated with one or more items in said  
12       physical environment and the number of said plurality of RF tags being  
13       variable, at least one of said wireless communication components  
14       communicating via wireless communication with said RF tags; and  
15          a data processor associated with said display, said data processor  
16       being in communication with said plurality of wireless communication  
17       components, said display providing a position and location of one or more  
18       of said RF tags in said site-specific computerized representation of said  
19       physical environment based on said wireless communication between said  
20       at least one of said wireless communication components and said one or  
21       more of said RF tags, the number of RF tags displayed in said site-specific  
22       computerized representation being variable and corresponding to the  
23       number of RF tags in said physical environment, said data processor  
24       retrieving or storing or processing information from said one or more of  
25       said RF tags based on said wireless communication between said at least  
26       one of said wireless communication components and said one or more of  
27       said RF tags.

1           9. A site specific inventory system as recited in claim 8 further comprising  
2       a connection between said data processor and an internet or intranet, said  
3       information retrieved, stored or processed at said data processor being  
4       accessible by said internet or intranet through said connection.

5       10. A site specific inventory system as recited in claim 8 wherein each of  
6       said RF tags is associated with a single item and contains information  
7       describing said single item.

1       11. A site specific inventory method, comprising the steps of:  
2              displaying a site-specific computerized representation of a physical  
3              environment in which a communications system is deployed;  
4              positioning a plurality of wireless communication components at  
5              plurality of different locations within said physical environment, said  
6              display identifying at least some of the wireless communication  
7              components and their locations in said site-specific computerized  
8              representation of said physical environment, at least one of said plurality of  
9              wireless communication components being a network device;  
10             distributing a plurality of RF tags within said physical environment,  
11             each of said RF tags being associated with one or more items in said  
12             physical environment and the number of said plurality of RF tags being  
13             variable, at least one of said wireless communication components  
14             communicating via wireless communication with said RF tags; and  
15             using a data processor associated with said display, said data  
16             processor being in communication with said plurality of wireless  
17             communication components, said display providing a position and location  
18             of one or more of said RF tags in said site-specific computerized  
19             representation of said physical environment based on said wireless  
20             communication between said at least one of said wireless communication  
21             components and said one or more of said RF tags, the number of RF tags  
22             displayed in said site-specific computerized representation being variable  
23             and corresponding to the number of RF tags in said physical environment,  
24             said data processor retrieving or storing or processing information from  
25             said one or more of said RF tags based on said wireless communication  
26             between said at least one of said wireless communication components and  
27             said one or more of said RF tags.

- 1        12. A site specific inventory method recited in claim 11 further  
2           comprising the step of connecting said data processor to an internet or  
3           intranet, said information retrieved, stored or processed at said data  
4           processor being accessible by said internet or intranet through said  
5           connection.
- 1        13. A site specific inventory method as recited in claim 11 wherein each  
2           of said RF tags is associated with a single item and contains information  
3           describing said single item.
- 1        14. A wireless communication system, comprising:
  - 2           a display for displaying a site-specific computerized representation  
3           of a physical environment in which a communications system is deployed;
  - 4           a plurality of wireless communication components positioned at  
5           plurality of different locations within said physical environment, said  
6           display identifying as graphical icons at least some of the wireless  
7           communication components and their locations or presence in said site-  
8           specific computerized representation of said physical environment; and  
9           a data processor associated with said display which retrieves or  
10          stores or processes information that describes each of said plurality of  
11          wireless communication components and which identifies a pre-defined  
12          communication method for at least some of said plurality of wireless  
13          communication components,
  - 14          said display selectively presenting graphical or textual information  
15          or a combination of graphical and textual information from said data  
16          processor pertaining to one or more of said plurality of wireless  
17          communication components when one or more graphical icons associated  
18          with said one or more of said plurality of wireless communication  
19          components are selectively identified on said display.

1       15. The wireless communication system of claim 14 wherein said data  
2 processor recognizes when wireless communication components are added  
3 or subtracted from said physical environment, and said display reflects  
4 additions or subtractions of wireless communication components by  
5 additions or subtractions of said graphical icons.

1       16. The wireless communication system of claim 14 wherein at least one  
2 of said plurality of wireless communication components is mobile, and is  
3 provisioned with a particular bandwidth using said data processor.

1       17. A wireless communication method, comprising the steps of:  
2              displaying a site-specific computerized representation of a physical  
3 environment in which a communications system is deployed;  
4              positioning a plurality of wireless communication components at  
5 plurality of different locations within said physical environment, said  
6 display identifying as graphical icons at least some of the wireless  
7 communication components and their locations or presence in said site-  
8 specific computerized representation of said physical environment;  
9              using a data processor associated with said display to retrieve or  
10 store or process information that describes each of said plurality of  
11 wireless communication components and to identify a pre-defined  
12 communication method for at least some of said plurality of wireless  
13 communication components; and  
14              selectively presenting graphical or textual information or a  
15 combination of graphical and textual information from said data processor  
16 pertaining to one or more of said plurality of wireless communication  
17 components when one or more graphical icons associated with said one or  
18 more of said plurality of wireless communication components are  
19 selectively identified on said display.

1       18. The wireless communication method of claim 17, further comprising

2       the step of communicating with one or more of said plurality of wireless  
3       communication components.

1       19. The wireless communication method of claim 18 wherein said step of  
2       communication is performed by voice over internet protocol.

1       20. The wireless communication method of claim 17, wherein at least one  
2       of said plurality of wireless communication components is mobile, and  
3       further comprising the step of graphically representing movement of said  
4       at least one wireless communication component that is mobile on said  
5       display.

1       21. The wireless communication method of claim 17, further comprising  
2       the step of provisioning bandwidth for one or more of said wireless  
3       communications components within said physical environment using said  
4       data processor.